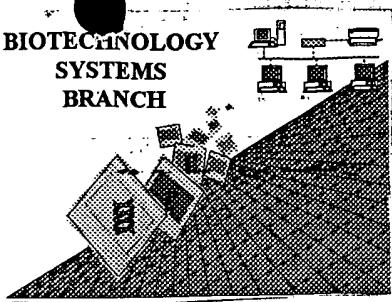


RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/669,817
Source: O/PE
Date Processed by STIC: 12/6/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/669,817

DATE: 12/06/2000
TIME: 14:24:32

Input Set : D:\RiceJumbo1Reg.rpt
Output Set: N:\CRF3\12062000\I669817.raw

1 <110> APPLICANT: Byrum, Joseph R.
 2 Ruan, Yijun G.
 3 Wallick, C. Kevin
 5 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 6 Plants
 8 <130> FILE REFERENCE: 38-21(51469)B
 CK > 10 <140> CURRENT APPLICATION NUMBER: US/09/669,817
 10 <141> CURRENT FILING DATE: 2000-09-26
 10 <150> PRIOR APPLICATION NUMBER: US 60/156,951
 12 <151> PRIOR FILING DATE: 1999-09-30
 14 <160> NUMBER OF SEQ ID NOS: 43701
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 501
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Oryza sativa
 21 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001a01b1
 23 <400> SEQUENCE: 1
 25 ccctcgctt cgccggaggc gcctccgcct ccacggccac tataagagcg cggccggccg 60
 27 ggcggcgggg gcggggggcc atggcgggga agaaggaggc ggaggaggct gtttgtaca 120
 29 ggggcgacaa gctgtatccctg cgggggctgc ggttccatgg caccacacgg gtgaagccag 180
 31 aggagaagaa gctggggccag aagtctgtca tgcgtcgta cgcctggatg gatctcgccg 240
 33 cgcggggga ctccgcacg atctccgaca cctgtcgata caccggaaatc tacaggata 300
 35 ccaagaatgt agtcgaaaggc cctgtcgacata atctgttggatcgttgcgttgcgttgc 360
 37 caaactcaac cctgtctcaag ttcccttcaaga ttctctgtca tgcgttgaaatggatgg 420
 39 ctcatgttgc tggccgggg gtcctcgact atttggggctt gggatattc aggccggagaa 480
 41 aacatgttgc tggccgggg gtcctcgact atttggggctt gggatattc aggccggagaa 501
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 577
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Oryza sativa
 49 <220> FEATURE:
 50 <221> NAME/KEY: unsure
 51 <222> LOCATION: (1)...(577)
 52 <223> OTHER INFORMATION: unsure at all n locations
 53 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001a03b1
 55 <400> SEQUENCE: 2
 57 ctctcatata taaaatgtcg caccacggcc acaatccctg ctccctccccca acccatcgct 60
 59 tccccccctcc acccgctctcc tccgtctccg ggcggggcgc cggcgagctc gcccccccg 120
 61 attcgtgccc tccgtatcaga ggcggaggcgg gagaaggat gggggctcacg ttccaccaagc 180
 63 tggttccggcc gtccttcgca aagaaggaga tgcgtatccct gatgggtgggt ctgtacgggg 240
 65 cccggaaagac cacaatcttc tacaatgtca agtcggcgca gategttcacc accatcccc 300
 67 ccatecggtt caatgttgc aacgtggagt acaagaacat cagcttcacc gtctgggtgt 360
 69 tgggggggtca ggacaagatc aggctctgtt ggggggttata ttcccaaaac acccagggtc 420
 71 tcatacttttgc tggccggacgc aatgtatggg acgtgtgtt cgaaggccat gatgagctcc 480
 73 acaggatgtt gaacggggat gagctacgtt atgtgtgtt gtcgttgcgtt ctacaaggcag 540
 75 atctgcggacac gtcgtatgtc tggccggacac tggatagc 577
 78 <210> SEQ ID NO: 3

OK

Does Not Comply
Corrected Diskette Needed

CK > (220) ← insert this mandatory
numeric identifier
whenever <221>,
<222>, or <223>
is shown
(global error)

RAW SEQUENCE LISTING DATE: 12/06/2000
PATENT APPLICATION: US/09/669,817 TIME: 14:24:32

Input Set : D:\RiceJumbolReg.rpt
Output Set: N:\CRF3\12062000\I669817.raw

79 <211> LENGTH: 232
 80 <212> TYPE: DNA
 81 <213> ORGANISM: Oryza sativa → *l2207*
 83 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001a05b1
 85 <400> SEQUENCE: 3
 87 ctctccatt tttgtatac cggacctctc tccctcgata atccgcgcg acgcgcacgc 60
 89 ggcgcqcaqta caaatccgcg cggcgcaccc cgcctcgccg aqcttgcqag gtggtlcccc 120
 91 gttcggcccc cggggggccc gcacatggct aqggtttgcg ggcgcgtggag tgggacacgcg 180
 93 actcgaggag gaggcgagac gaggaggagg aggaggagga ggaggagggg gt 232
 96 <210> SEQ ID NO: 4
 97 <211> LENGTH: 523
 98 <212> TYPE: DNA
 99 <213> ORGANISM: Oryza sativa
 101 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001a06b1 *insert C*
 103 <400> SEQUENCE: 4
 105 atctggatcg caqatccaca agtgttccttc acactccac tccacgcqca gctgaggcaga 60
 107 gagctccacc qccgcggccc accatgagtt ctccaccacg ttacgcaccc ctccctcgacg 120
 109 acccccttctt cccttccca cccgcgttctt ccccttcctg ccccttcctc tcccccacccg 180
 111 cccgttccctc caccctggccc ttcttcqccc tegactccccc ttctcgctgt gaccctttcc 240
 113 atccatccaccc ctccctcccccc acggcgacca ctatgccttcct cctcgacccccc ttccctcc 300
 115 acacccatccac ccggcgccgttccaaactcg aqctcgcctt cggccgcgcg gccccacacc 360
 117 ccaggccccac cggcggaaag tgcacccatgt tcaccggatc caceggccgcg atggtcaagt 420
 119 ggaccaccga ggacaaggct cggcggccgcg agagggtgtc caagtggag gctgagctcg 480
 121 actcccccta cggatggta ttccggatggc aqgtggaaatg gga
 124 <210> SEQ ID NO: 5
 125 <211> LENGTH: 511
 126 <212> TYPE: DNA
 127 <213> ORGANISM: Oryza sativa
 129 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001a08b1 *insert C*
 131 <400> SEQUENCE: 5
 133 ttgcgtccaaa aaaaatccaaa caaaaagaaa aaatattccc catctgtcaa attccaaaaa 6
 135 cccttagcgcq qggcgatgt cgaacacqag qqttttcttc gacatgaccc tcqgcggqacg 12
 137 tccgggggggg cggatcgta tggagctgtt cggaaaggac gtggccggaa cggcgagaa 18
 139 cttccgcgcg ctctgcaccc gcgagaagggg cttggcgaag aqccggcaacg cqctgcacta 24
 141 caaggggagc accttccacc gctgtatccc ggagttcatg tgccaggccg qcgatccatc 30
 143 cccggccaaac ggcacgggg gggatcgat ctacggcgag aqttccgcg acgagggttt 36
 145 caagggtcaac cggcacaqcc cggcgtatccatgttccatggcc aacccggggc caaactaa 42
 147 cgggtttccatgttccatgttccatgttccatggcc aacccggggc caaactaa
 149 gttccggccgc gtcgtcgagg gcatggacgtt c
 152 <210> SEQ ID NO: 6
 153 <211> LENGTH: 500
 154 <212> TYPE: DNA
 155 <213> ORGANISM: Oryza sativa
 157 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001a11b1 *insert C2*
 159 <400> SEQUENCE: 6
 161 tcgcgtcgat ctcccttccttcc cccgttccatgttccatgttccatggcc aacccggggc cacacggcgc 6
 163 catggccggca gggccggagg gggcggcggc gggcgtgtcg cggcggcggc aggacgtgtca 12
 165 gatgtatgtcc gcccggatcc tccacccatgttccatgttccatggcc aacccggggc aqatggggcg 18
 167 ctatcgatcc aqccggcgtt cccgttccatgttccatgttccatggcc aacccggggc agacatgggg 24

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/669,817

DATE: 12/06/2000
TIME: 14:24:32

Input Set : D:\RiceJumbo1Reg.rpt
Output Set: N:\CRF3\12062000\I669817.raw

259 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001b03b1
 261 <400> SEQUENCE: 10
 263 cggccgcgcg ccactccat ggccacgc aa cggctcttcg cggctcttcg cctcccttc 60
 265 ctcgcgcgtc gcgcgcgtcc gctcgctcga tc cccgcgcgg cggcaagaa cggccgtgggt 120
 267 ggccgggtgggt ggccgcgcgc ggccgcacacg atacacgcgc tccgcggac gcacggcgtg 180
 269 ccggggggggc tgctggcg cg aggggtggag tccgtacgc tccgcggac gaacggcgtg 240
 271 ctggaaqgcgc qgctgtcgcc gcccgttac qccaaqgtacq acgacggcga ccttggcttc 300
 273 ttccgacaccg tggtgccgggg caacatcgac tccggcgccg tccggcgccgt ggaaggccgt 360
 275 tcccaaggagg agctttcggt gtgttcccc gtciauggca tccggcgacgc cgaccggcgc 420
 277 tccggcgaca ttcttttga catcggtac accccaca 458
 280 <210> SEQ ID NO: 11
 281 <211> LENGTH: 536
 282 <212> TYPE: DNA
 283 <213> ORGANISM: Oryza sativa
 285 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001b09b1
 287 <400> SEQUENCE: 11
 289 gcttcqacat gacgcgcg acgacggagt ttgttcagct tccggcggtc gggccggcgt 60
 291 cgctgcgtc egtyggcgccg aqgtggcgccg cggcgccagg cgccgggtcg gtcatacgc 120
 293 aggccgttta caacacatg ctggccaaacc gcacaaatc gcagtggccg gggaggccgt 180
 295 tctacacgtt cggccgttcc atccggcccg acaacttcctt cccggcgttc ggcacccatc 240
 297 gggccggcgc cggatcatacggccggcgtc tccggccgtt ctccggcccg acctcccaacg 300
 299 agaccacccgg tggaaacgaa ggtatgttcg accagtccaa gttgggttac tgcitcaag 360
 301 aggagataaa caugccgact ttcacccctt actatggacg tggcccaatt caattgacag 420
 303 ggcaatcgaa ctaccaagca gggccggaaacg cggccggccgt gggacttgggt ggcacccacg 480
 305 accttgggtc caccgcgcgc gtgttccctt caagacggcc atctgggttctt ggtatga 536
 308 <210> SEQ ID NO: 12
 309 <211> LENGTH: 481
 310 <212> TYPE: DNA
 311 <213> ORGANISM: Oryza sativa
 313 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001b12b1
 315 <400> SEQUENCE: 12
 317 ggttttcattt cggactccgg taaggacccc qgttcgttctt qggcaqcttc 60
 319 gcaatgttac aatgttcagg aggatctcat caacgttgc aaggatgttgg gggtaatgc 120
 321 tgacaaatgtt ccatggacgc ggttggactt tcccaaggagg cggaggctcc agtcatctt 180
 323 ccatcttgc tccggccatca gacacattcc atggatcttcc cccgggttactt gtcagggtt 240
 325 aagtcatgtt gcaatgttcc ggttggggacg accttttgtt cggacactt cggcgtttca 300
 327 cggcttccac tctggagcat ggcatttcatc caccatttc gccggaaacca qaatggcggt 360
 329 ctctgttgc tggatgttgc gttgtggctt caaaggaaata cccgttccatg cgttggccagg 420
 331 aaccacgtt tggatgttgc ttcggccgtt caacaccaga gatggatgtt ggcaggatgt 480
 333 a
 336 <210> SEQ ID NO: 13
 337 <211> LENGTH: 486
 338 <212> TYPE: DNA
 339 <213> ORGANISM: Oryza sativa
 341 <223> OTHER INFORMATION: Clone ID: uC-osflcyp001c01b1
 343 <400> SEQUENCE: 13
 345 gttttcattt agatggactt tggaaaaat actgtattttt tggacaaggaa gttaaaggac 60
 347 tggaaaggatg ctatgttca agaagggttat aaagaaggaa cattgggttca agaatttgc 120
 349 cctataaaac atatgttca acattttttt gttcgatgtt gatggatgtt ggcaggatgt 180

insert C2207

insert C2207

insert C2207

insert C2207

RAW SEQUENCE LISTING DATE: 12/06/2000
PATENT APPLICATION: US/09/669,817 TIME: 14:24:32

Input Set : D:\RiceJumbo1Reg.rpt
Output Set: N:\CRF3\12062000\I669817.raw

insert C2207

en seit 12207

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

Please Note:-

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/669,817

DATE: 12/06/2000
TIME: 14:24:33

Input Set : D:\RiceJumbo1Reg.rpt
Output Set: N:\CRF3\12062000\I669817.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:1633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:2105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
L:2189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:2431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89
L:2827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105
L:3083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:3807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148
L:4489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:4523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176
L:5043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:197
L:5165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202
L:5223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L:5269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
L:5695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:223
L:5747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225
L:5873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:230
L:5943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233
L:6461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257
L:6505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:259
L:6699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:268
L:7311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:301
L:7477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309
L:7777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:322
L:8785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:365
L:8849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:367
L:9161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:379
L:9393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:387
L:10227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:418
L:10307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:421
L:10491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:428
L:10591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:431
L:10649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:433
L:10681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:434
L:10759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437
L:11111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:450
L:11193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:453
L:11659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:471
L:11743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:474

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/669,817

DATE: 12/06/2000
TIME: 14:24:33

Input Set : D:\RiceJumbo1Reg.rpt
Output Set: N:\CRF3\12062000\1669817.raw

L:11949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:482
L:12717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:512
L:13523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:543
L:13881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:556